

# UNIT LOAD MARKING FOR SHIPMENT AND STORAGE, AMMUNITION AND EXPLOSIVES

1. MARKING OF THE UNIT LOAD COMMODITIES (E.G. BOXES, CONTAINERS, ETC.) OR UNPACKED COMMODITIES SHALL BE IN ACCORDANCE WITH THE DESIGNATED SPECIAL PACKAGING INSTRUCTIONS (SPI) OR DRAWING FOR THE SPECIFIC COMMODITY.

2. COMMODITIES SHALL BE POSITIONED AND UNITIZED IN ACCORDANCE WITH THE APPROVED UNITIZATION DOCUMENT OR DRAWING. IF POSSIBLE, COMMODITY MARKINGS SHALL BE VISIBLE ON AT LEAST ONE SIDE OF THE UNIT LOAD.

NOTE: IT IS PREFERRED THAT THE COMMODITIES ARE ORIENTED SO THAT MARKINGS ARE VISIBLE ON TWO SIDES OF THE UNIT LOAD.

IN THE EVENT ORIENTATION REQUIREMENTS CANNOT BE MET THEN MARKING DATA SHALL BE ADDED USING ONE OF THE MARKING METHODS DETAILED IN STEP 4.

3. THE IDENTIFICATION MARKINGS ON THE PALLETIZED UNIT LOADS SHALL INCLUDE THE FOLLOWING:

- A. NSN
- B. DODIC/NALC
- C. LOT NUMBER
- D. QUANTITY
  - (1) BY LOT (IF MORE THAN ONE LOT)
  - (2) TOTAL QUANTITY (IF ONE LOT)
- E. ITEM DESCRIPTION
- F. NET EXPLOSIVE WEIGHT (N.E.W.)
- G. GROSS WEIGHT OF UNIT LOAD
- H. CUBE OF UNIT LOAD
- I. DIMENSIONS (LENGTH, WIDTH, AND HEIGHT) OF UNIT LOAD

NOTE: THE FOLLOWING (AS REQUIRED BY TITLE 49 CFR) MUST BE UNOBSURED AND LOCATED AWAY FROM ANY OTHER MARKINGS THAT COULD SUBSTANTIALLY REDUCE THEIR EFFECTIVENESS.

- J. PROPER SHIPPING NAME (PSN) AND IDENTIFICATION NUMBER
- K. CONTAINER CERTIFICATION NUMBER (CCN) WHEN COMMODITIES ARE CERTIFIED BY MEANS OF CERTIFICATION OF EQUIVALENCY (COE).
- L. D.O.T. EXEMPTION NUMBER (IF APPLICABLE)
- M. LABELS AS REQUIRED BY TITLE 49 CFR

4. WHEN REQUIRED, THE ADDITION OF IDENTIFICATION MARKING SHALL BE APPLIED TO TWO ADJACENT SIDES OF THE LOAD IN ACCORDANCE WITH FIGURE 1 AND THE FOLLOWING:

A. MARKING SHALL BE APPLIED BY STENCILING, STAMPING, MACHINE PRINTING, SILK-SCREENING OR EMBOSSING. MARKINGS SHALL BE THE LARGEST PRACTICAL SIZE. MARKINGS SHALL BE LEGIBLE AND IN A CONTRASTING COLOR TO THE MARKING SURFACE.

| REV.  | REVISION DESCRIPTION | DATE               | TDA   | SYSCOM |        |
|---|----------------------|--------------------|---|--------|--------|
| TECH DATA MANAGEMENT SUPERVISOR   | S/ RE/AVS            | 9/25/00            | DISTRIBUTION STATEMENT A<br>APPROVED FOR PUBLIC RELEASE: DISTRIBUTION IS UNLIMITED<br><br>THIS TRUCKLOAD IS AUTHORIZED AND RELEASED<br>FOR HIGHWAY SHIPMENT ONLY. |        |        |
| SYSTEMS ENG. SUPERVISOR   | S/ GB                | 9/25/00            |   |        |        |
| S/ K. H. ZIMMS  |                      | 9/25/00            |   |        |        |
| NAVSEASYSKOM ( BY DIRECTION )   |                      |                    |   |        |        |
| DEPARTMENT OF THE NAVY<br>NAVAL SEA SYSTEMS COMMAND<br>ARLINGTON, VA 22242-5160 |                      | CAGE CODE<br>53711 | DWG NO. 6214251   |        | REV. — |
|   |                      | SIZE A             |   |        |        |
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B. MARKING PANELS, WATERPROOF PAPER, METAL, CLOTH OR PLASTIC SHIPPING TAGS MAY BE USED. TAGS SHOULD BE ATTACHED TO THE UNIT LOAD BY CORROSION-RESISTANT WIRE OR PLASTIC TIES. IN ADDITION TO USING WIRE OR PLASTIC TIES, TAGS MAY ALSO BE ATTACHED BY STAPLES. (STAPLES OR ATTACHMENT DEVICES SHALL NOT BE ATTACHED TO THE UNIT LOAD COMMODITIES.

C. MARKING PANELS SHALL BE WATER PROOF FIBERBOARD OR PLYWOOD AND BE PERMANENTLY AFFIXED TO THE UNIT LOAD STRUCTURE (E.G. BANDING, FRAME, ETC.).

D. BOXES WHICH MUST HAVE ALL NOSE ENDS POINTED IN THE SAME DIRECTION SUCH AS SOME ROCKETS AND WHITE PHOSPHORUS (WP) ROUNDS SHALL NOT BE TURNED.

E. POP CERTIFICATION MARKINGS OF THE COMMODITIES SHALL BE VISIBLE ON AT LEAST ONE PLACE ON THE UNIT LOAD.

5. FULL CARLOAD OR FULL TRUCKLOAD SHIPMENTS.

A. PACKAGES OF MILITARY AMMUNITION AND EXPLOSIVES SHIPPED BY OR ON BEHALF OF DOD IN FREIGHT CONTAINER LOADS, CAR LOADS OR TRUCK LOADS (INCLUDING EXCLUSIVE USE) AND LOADED AND UNLOADED BY THE SHIPPER OR BY DOD ARE EXEMPT FROM HAZARD WARNING LABELING REQUIREMENTS. ALSO, UNITIZED OR PALLETIZED BREAK BULK SHIPMENTS BY CARGO SHIP UNDER CHARTER TO DOD MAY BE SHIPPED WITH A SINGLE HAZARD WARNING LABEL PER UNIT LOAD. HOWEVER, WHEN THE LOGISTICS FLOW OF MATERIAL IS UNKNOWN, GENERAL HAZARDOUS MATERIALS LABELING REQUIREMENTS SHALL BE MET.

B. ALL SHIPMENTS (EXCEPT THOSE IN INTERMODAL CONTAINERS) REQUIRE THAT AT LEAST ONE HAZARD WARNING LABEL BE AFFIXED TO EACH UNIT LOAD OF PALLETIZED CARGO OR TO EACH EXTERIOR PACKAGE OF LOOSE CARGO IN ACCORDANCE WITH TITLE 49 CFR AND THE APPLICABLE INTERNATIONAL MODAL DOCUMENT REQUIREMENTS. THE MARKING AND LABELING REQUIREMENTS IMPOSED BY FOREIGN GOVERNMENTS SHALL BE OBSERVED AS PRESCRIBED BY THE SERVICE DIRECTING THE SHIPMENT. SHIPMENTS TO THE UNITED KINGDOM MUST HAVE LABELS OR LABELED TAGS APPLIED TO ALL FOUR EXTERIOR SIDES OF THE UNIT LOAD. LABELS SHALL NOT BE APPLIED DIRECTLY TO THE END ITEM.

6. BAR CODING UNIT LOADS (SEE FIGURE 2).

A. BAR CODE SYMBOLOGY SHALL COMPLY WITH AIM BC 1. THE DATA ELEMENTS TO BE ENCODED ARE THE NATIONAL ITEM IDENTIFICATION NUMBER (NIIN), THE LOT NUMBER AND QUANTITY. THE NIIN SHALL BE ENCODED WITHOUT DASHES. THE LOT NUMBER SHALL BE ENCODED WITH DASHES. ADDITIONAL DATA ELEMENTS MAY ALSO BE REQUIRED BY THE PROCURING ACTIVITY. UNLESS OTHERWISE SPECIFIED, LABELS SHALL BE APPLIED ON THE FAR RIGHT VERTICAL STRAPS ON THE SHORT DIMENSION OF THE UNIT LOAD. LABELS SHALL BE APPLIED TO BOTH SIDES OF THE UNIT LOAD STARTING 18 INCHES ABOVE THE PALLET DECK. IF THE TOP OF THE LOAD IS LESS THAN 18 INCHES, APPLY LABELS FROM THE TOP OF THE VERTICAL STRAP. WHEN THERE ARE NO VERTICAL STRAPS ALONG THE SHORT DIMENSIONS, THE LABELS SHALL THEN BE APPLIED TO VERTICAL STRAPS ALONG THE LONG DIRECTION.

B. MORE THAN ONE LOT. MULTIPLE LOT LABELS SHALL BE PLACED IN SEQUENCE. IF THERE IS NOT SUFFICIENT SPACE ON THE STRAPPING ON THE SHORT DIMENSION, LABELS SHALL BE PLACED ON A LOCALLY FABRICATED, MOISTURE-PROOF DISPLAY BOARD, PREFERABLY ALUMINUM, AND SHALL BE ATTACHED TO THE UNIT LOAD.

7. LIGHT LOAD MARKINGS. WHEN THE BOTTOM SURFACE OF A LIGHT OR EMPTY BOX IS VISIBLE (I.E., THE ORANGE COLOR IS NOT VISIBLE IN THE UNIT LOAD) THE BOTTOM MUST BE PAINTED OR MARKED IN ORANGE SIMILAR TO COLOR CHIP 32246 OF FED-STD-595. THE WORDS "LIGHT BOX" OR "EMPTY" AS APPLICABLE, SHALL BE MARKED IN A CONTRASTING COLOR ON THE BOX BOTTOM.

A. UNIT LOADS CONTAINING EMPTY OR LIGHT BOXES SHALL BE IDENTIFIED BY QUANTITY PER BOX AND/OR NUMBER OF EMPTY BOXES. THIS INFORMATION SHALL BE SHOWN NEAR THE OTHER PALLET IDENTIFICATOIN MARKINGS.

B. LESS THAN FULL UNIT LOADS OF UNPACKAGED AMMUNITION SUCH AS SEPARATE LOADING PROJECTILES SHALL BE IDENTIFIED BY AN ORANGE TAG, SIMILAR TO COLOR CHIP 32246 OF FED-STD-595, PLACED ON TWO DIAGONAL CORNERS OF THE LOAD, WITH THE TAG MARKED AS "LIGHT LOAD." SUCH LOADS MUST BE CONSTRUCTED SO THAT THE LONGITUDINAL CENTER OF GRAVITY IS THE SAME AS FOR A FULL LOAD.

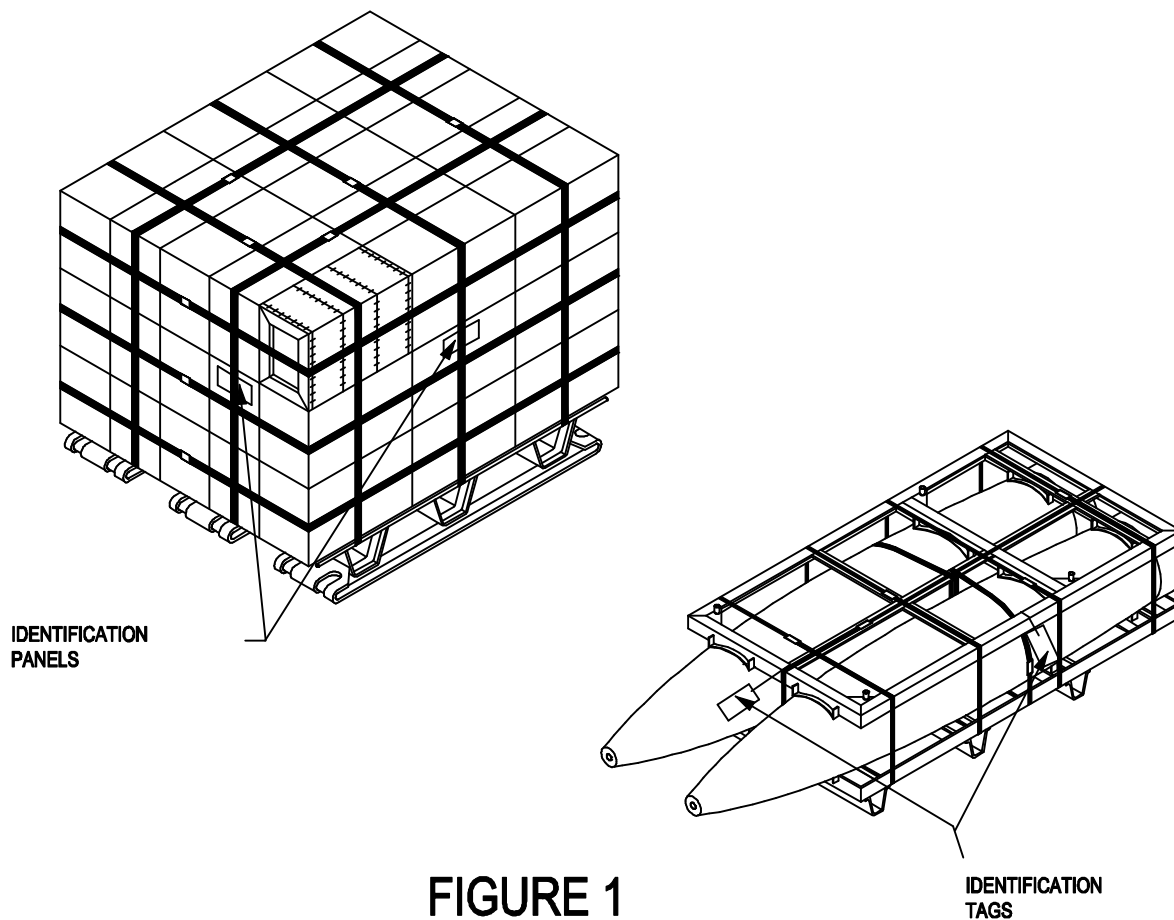


FIGURE 1

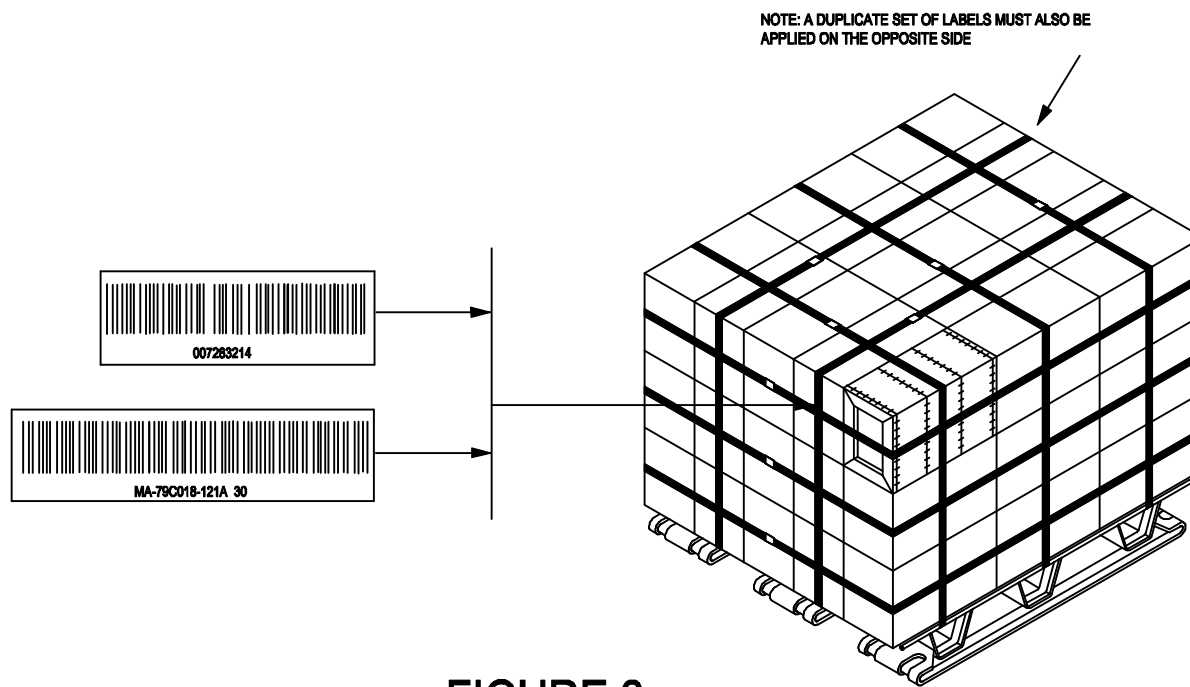


FIGURE 2